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Revised 01/29/2002



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/901,572

Input Set : A:\EP.txt

file://C:\CRF4\Outhold\VsrI901572.htm

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      4 <120> TITLE OF INVENTION: Modified DNA molecules, Recombinants and uses thereof
      5 <130> FILE REFERENCE: J209
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only 4 sequences in submitted file
Does Not Comply
Corrected Diskette Needed
Corrected Diskette Needed
      6 <140> CURRENT APPLICATION NUMBER:
C-->
     7 (141) CURRENT FILING DATE: 2002-09-23
      8 (<160>) NUMBER OF SEQ ID NOS:
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     31 aatqttcaac cttcaaacta caqttttqtt qcttttaqtq ctgatgtaac acccgtcaat
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Input Set : A:\EP.txt

· Output Set: N:\CRF4\10012002\I901572.raw

(2207 Eunsent

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Input Set : A:\EP.txt

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     107
                                               10
E--> 108 Tyr Gly Thr Asn Ser Ser Pro Ser Thr Gln Asn Val Thr Ser Arg(GIu,
                 .
                      20
                                          25
                                                                             do you
mean Glu
     112 Val Val Ser Ser Val Gln Leu Ser Glu Glu Glu Ser Thr Phe Tyr Leu
                                      40
                                                           45
     114 Cys Pro Pro Pro Val Gly Ser Thr Val Ile Arg Leu Glu Phe Gly Cys
                                  55
     116 Met Ser Ile Thr Lys Lys Asp Ala Asn Pro Asn Asn Gly Gln Thr Gln
     117
     118 Leu Glu Ala Ala Arg Met Glu Leu Thr Asp Leu Ile Asn Ala Lys Ala
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                          85
     119
     120 Met Thr Leu Ala Ser Leu Gln Asp Tyr Ala Lys Ile Glu Ala Ser Leu
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                                          105
                                                              110
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                                     120
                                                          125
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     125
             130
                                 135
     126 Asn Gln Ala Asn Thr Asp Lys Thr Thr Phe Asp Asn Glu His Pro Asn
     127 145
                             150
                                                  155
     128 Leu Val Glu Ala Tyr Lys Ala Leu Lys Thr Thr Leu Glu Gln Arg Ala
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                                              170
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                                          185
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                                     200
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                                                      220
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                                                  235
     137 225
     138 Lys Thr Asn Ala Asp Ala Leu Ser Asn Ser Phe Ile Lys Lys Val Ile
                         245
                                              250
     140 Gln Asn Asn Glu Gln Ser Phe Val Gly Thr Phe Thr Asn Ala Asn Val
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Input Set : A:\EP.txt

Output Set: N:\CRF4\10012002\I901572.raw

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                                                                                                           315
          148 Ile Tyr Ser Leu Ala Gly Thr Asn Thr Lys Tyr Gln Phe Ser Phe Ser
                                                     325
                                                                                                  330
          150 Asn Tyr Gly Pro Ser Thr Gly Tyr Leu Tyr Phe Pro Tyr Lys Leu Val
                                                                                         345
          152 Lys Ala Ala Asp Ala Asn Asn Val Gly Leu Gln Tyr Lys Leu Asn Asn
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                                                                                                                    380
                                                                        375
          156 Thr Thr Ala Asn Pro Thr Pro Ala Val Asp Glu Ile Lys Val Ala Lys
                                                                                                           395
                                                              390
          158 Ile Val Leu Ser Gly Leu Arg Phe Gly Gln Asn Thr Ile Glu Leu Ser
                                                                                                 410·
                                                    405
          160 Val Pro Thr Gly Glu Gly Asn Met Asn Lys Val Ala Pro Met Ile Gly
                                                                                        425
                                                                                                                                      430
                                          420
          162 Asn Ile Tyr Leu Ser Ser Asn Glu Asn Asn Ala Asp Lys Ile Pro Gly
          163 435
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          164 Tyr Arg Arg Pro Gly Thr Phe Leu
          168 (210) SEQ ID NO: 25

169 (211) LENGTH: 1224

170 (212) TYPE: PRT

171 (213) ORGANISM: Mycoplasma gallisepticum (212) ISSURINGE (213) ORGANISM: Mycoplasma gallisepticum (213) ORGANISM: Mycoplasma ga
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                                                                                  40
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          188 Ser Asp Tyr Thr Thr Ser Arg Asn Arg Phe Asp Gln Arg Gln Thr Arg
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194 Lys Phe Val Ile Gly Gly Val Asp Asn Pro Ala His Val Ile Arg Phe

155

150

Input Set : A:\EP.txt

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195					165	_	-1	_	-1	170		a 1	m)	a1 -	175	01
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Input Set : A:\EP.txt

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249	АЗР	ASII	GLY	580	1111	1111	H3II	GLY	585	1111	1111	1111	mu	590	1111	DCI
	Car	Glv	Sar	Thr	Glv	Δla	Glv	Thr	-	Asn	Thr	Thr	Asn		Ser	Gln
251	261	Gry	595	1111	OI,	mia	O _I	600	011				605		001	V 2
	Thr	Va 1		Asn	Pro	Thr	Leu		Thr	Tvr	Ara	Ser		Glv	Ile	Asp
253		610					615			-1-	3	620		-		-
_	Ser		Pro	Thr	Ser	Ala	Asn	Lys	Ile	Asp	Glu	Thr	Asn	Trp	Ala	Asp
	625	-				630		-		-	635			_		640
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		Tyr	vaı	Phe	GTĀ	_	Leu	GLY	Tyr	GIN	715	Thr	Arg	Thr	GTÄ	720
	705	m~~	Шттт	C1**	mb ~	710	Tvva	T OU	T OII	λan		Sor	Dro	Tur	7 en	
	Pne	ттр	TAT	Gly	725	тут	гуѕ	Leu	ьeu	730	ASII	ser	PIO	тут	735	vai
267	T.Ou	Aen	Ser	Pro		Va 1	Glv	Thr	Glu		Asn	Gln	Phe	Arσ		Thr
269	пец	дор	JCI	740	пту	vul	OLY	1111	745		11011	0	1 110	750		
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277					805			_		810					815	_
	Val	Gly	Val	Lys	Ala	Ser	Ser	Phe		Asn	Ser	Asn	Arg		Asn	Pro
281	_		_	820		-1 -			825	m l	m	T	3	830	71 -	т1 о
	Asn	GTÀ		Glu	мет	тте	Ата		Thr	Thr	туг	Leu	845	ser	GIII	116
283	a 1	T 0.11	835	Arg	mb x	Cor	C117	840	Dro	N c n	Cln	Cln		Dho	G1v	Thr
285	GTĀ	850	Ата	ALG	TIIT	ser	855	ьeu	PIO	ASII	GIII	860	FIU	FILE	GIY	1111
	Thr		Gln	Val	Tle	Ser		Ser	Pro	Glv	Asp		Phe	Ser	Ser	Tle
287		1113	GIII	VUI	110	870	· u ·	DCI	110		875	01		001	001	880
		Asn	Ile	Arg	Thr		Phe	Pro	Glv	Asn		Leu	Trp	Tyr	Phe	
289	210			9	885				1	890				-1-	895	
	Phe	Thr	Asn	Glu	Asn	Asn	Lys	Ser	Ser	Val	Tyr	Thr	Leu	Arg	Leu	Ala
291				900			_		905		_			910		
	Asp	Ser	Ser	Asn	Pro	Asp	Ala	Ser	Ser	Ser	Phe	Ser	Pro	Thr	Ser	Leu
293			915					920					925			
294	Ile	Asp	Val	Asn	Glu	Ile		Val	Ile	Leu	Pro		Leu	Asp	Asn	Ser
295		930	_				935				_ •	940		_	_	_
296	Phe	Tyr	Thr	Val	Asn	Ala	Ala	Gly	Asn	Val	Ala	Leu	Pue	ser	ser	Asn

Input Set : A:\EP.txt

	945															960
298 299	Pro	Gly	Ser	Pro	Gly 965		Tyr		Ala	Val 970	Asn	Thr	Phe	Asn	Gln 975	Asn
300 301	Leu	Ser	Asp	Ile 980	Ala	Phe	Glu	Gly	Ser 985	Gly	Ala	Lys	Tyr	Thr 990	Ser	Asp
	Phe	Trp	Gly 995		Ile	Gln		Lys 1000			Glu		Leu 1005	Ile	Gln	Asn
	Glv	Phe		Ser	Gln	Val	Ala	Arq	Asn	Phe	Val			Gln	Ser	Phe
305	_	1010					1015	,				1020				
306	Leu	Asn	Ser	Leu	Val	Asp	Phe	Thr	${\tt Pro}$	Ala	Asn	Ala	Gly	Thr	Asn	Tyr
	102					L030					L035					L040
	Arg	Val	Val		Asp						Thr	Asn	Gln			Pro
309					L045					L050					L055	
	Leu	Lys			Ile	Gln	Tyr								Ala	Lys
311			_	L060			_			_				L070		
	Leu	-		Asn	Asn	Leu			Phe	Ser	Tyr			Phe	GLY	Ala
313			L075		.	•		L080		- 1	-1		L085	_	~ 1	~1 ·
			Ser	Trp	Val			Thr	Ala	Пе			Thr	Leu	GIY	шe
315		1090					L095	~ 1	_			L100	- 1-	n	.	
					Ile			_				GTA	шe	Pro		Arg L120
	110		_			1110		Ŧ			1115	m b	mh	Dha	_	
	Ата	GIn	Arg	_	Leu	GIn	Asp	ьуs			гàг	THE	THE		ьуs 1135	гуѕ
319	17-1	3	mb		l125 Thr	7 l n	ת 1 ת	17-1		1130	Val	Пттх	Two	_		Tlo
	vaı	Asp		Leu L140	TILL	Ата	Ата		1145	ser	vaı	тут		1150	116	116
321	шhъ	C1 n			Asn	17 n 1	Tvc			Dro	λ 1 a	λla			λla	Glv
323			1111	на	ASII	Val		1160	цуз	FIU	ΑΙα		1165	Gry	niu	OLY
				Δen	Lys	T.ve			Δla	Δla	Δla			Ala	Ala	Pro
325	_	1170	GLY	пор	цуз		1175	211.4	1114	711LG		1180	110	11.24		
			Pro	Ser	Ala			Ala	Ser	Ser			Lvs	Pro	Thr	Glv
	118	-	110	501		L190	2,2		001		L195		-1-			L200
			Ser	Glv	Ala				Pro			Pro	Lys	Pro		
329		-10			L205			-4-		1210		_	•		L215	
	Pro	Lys	Pro	Thr	Ala	Pro	Lys	Glu								
331		-		L220			-									

Input Set : A:\EP.txt

Output Set: N:\CRF4\10012002\I901572.raw

Skipped Sequences(NEW RULES):

Sequence(s)_missing. If intentional, please use the following format for each skipped sequence.

<210> sequence id number
<400> sequence id number
000

Seq#:3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,19,20,21,22,23,24

VERIFICATION SUMMARY

DATE: 10/01/2002 TIME: 16:12:32

PATENT APPLICATION: US/09/901,572

Input Set : A:\EP.txt

- L:4 M:283 W: Missing Blank Line separator, <120> field identifier L:5 M:283 W: Missing Blank Line separator, <130> field identifier L:6 M:283 W: Missing Blank Line separator, <140> field identifier L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:8 M:212 E: (34) Invalid or duplicate Sequence ID Number, Number Of Sequences Unknown L:8 M:283 W: Missing Blank Line separator, <160> field identifier L:10 M:283 W: Missing Blank Line separator, <210> field identifier L:15 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:1 L:15 M:283 W: Missing Blank Line separator, <400> field identifier L:43 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:2 L:43 M:283 W: Missing Blank Line separator, <400> field identifier L:100 M:216 E: (34) Seq. #s missing, SEQ ID NOS: 3 thru 11 L:105 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:12 L:105 M:283 W: Missing Blank Line separator, <400> field identifier L:108 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:168 M:216 E: (34) Seq. #s missing, SEQ ID NOS: 13 thru 24

- L:173 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:25
- L:173 M:283 W: Missing Blank Line separator, <400> field identifier
- L:8 M:203 E: No. of Seq. differs, <160> Number Of Sequences: Input (0) Counted (4)